

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number:

Luminaire Tested: SQ4-PP3-125U-100D-927-1D-UNV-STD-W-6

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-100D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

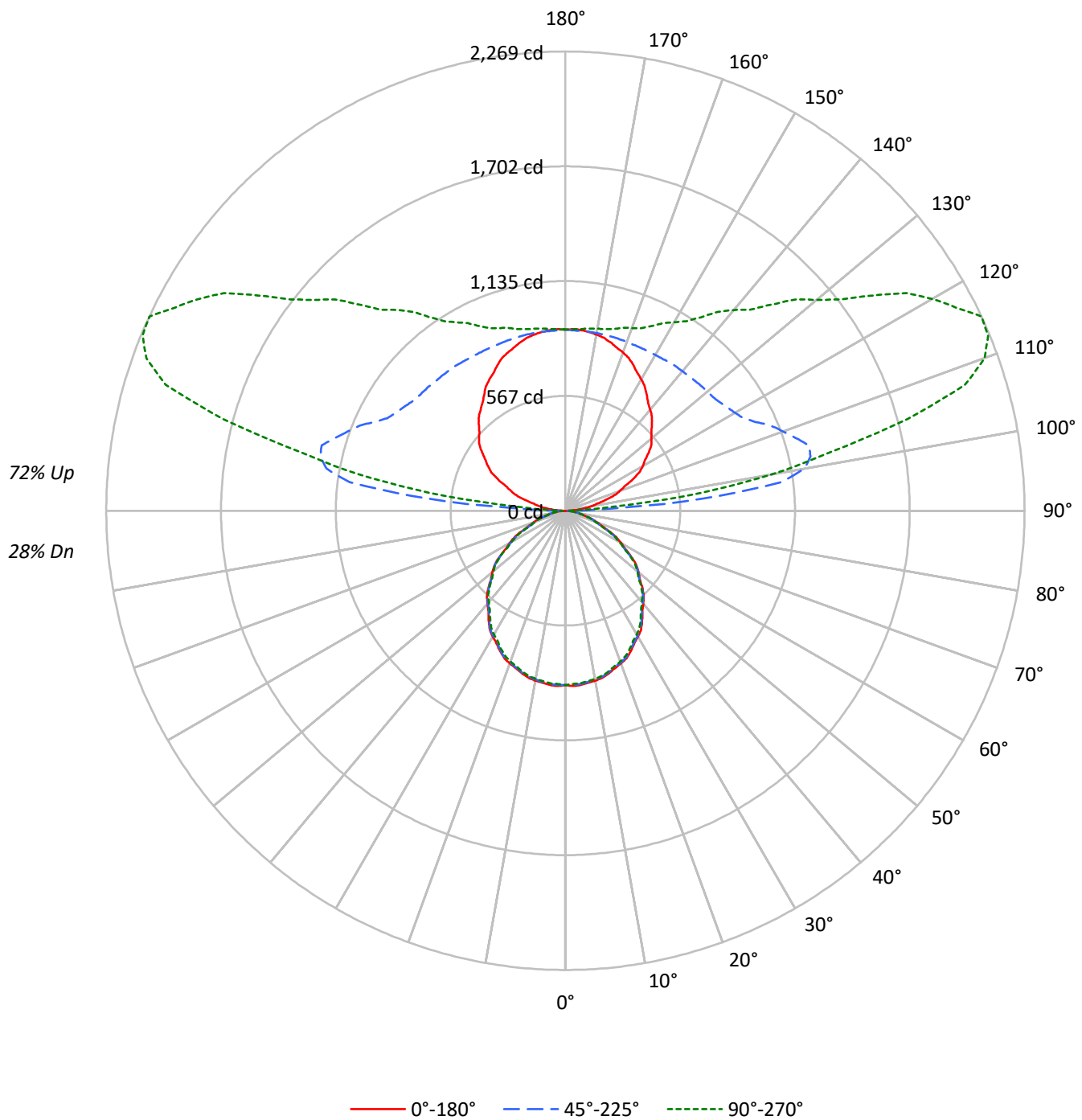
Lumens per Lamp: N/A
Luminaire Lumens: 7981.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 102.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	80	76	74	62	60	58	46	45	44	32	31	30
2	85	78	72	67	75	70	65	61	55	51	48	41	39	37	28	27	26
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16
6	59	48	40	35	53	43	36	32	34	29	26	26	23	20	18	16	14
7	55	43	35	30	49	39	32	28	31	26	23	23	20	18	16	14	13
8	51	39	32	26	45	35	29	24	28	23	20	21	18	16	15	13	11
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5298	5298	5298
5°	5337	5304	5286
10°	5328	5291	5267
15°	5293	5264	5235
20°	5258	5228	5189
25°	5195	5159	5108
30°	5099	5072	5008
35°	4966	4932	4869
40°	4807	4777	4722
45°	4675	4643	4597
50°	4508	4479	4435
55°	4274	4218	4185
60°	3891	3780	3762
65°	3427	3285	3275
70°	2960	2838	2838
75°	2548	2512	2476
80°	2246	2274	2221
85°	1757	1920	1920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.0
10°-20°	232.6	2.9
20°-30°	348.4	4.4
30°-40°	408.6	5.1
40°-50°	409.9	5.1
50°-60°	349.7	4.4
60°-70°	228.0	2.9
70°-80°	114.4	1.4
80°-90°	33.8	0.4
90°-100°	418.4	5.2
100°-110°	1127.1	14.1
110°-120°	1182.9	14.8
120°-130°	959.9	12.0
130°-140°	752.8	9.4
140°-150°	578.0	7.2
150°-160°	415.6	5.2
160°-170°	253.9	3.2
170°-180°	85.6	1.1
0°-30°	662.4	8.3
0°-40°	1071.0	13.4
0°-60°	1830.6	22.9
0°-90°	2206.8	27.7
90°-120°	2728.4	34.2
90°-150°	5019.1	62.9
90°-180°	5774.0	72.3
0°-180°	7981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	864	856	859	856	856	82
15°	831	823	827	824	822	234
25°	766	757	760	753	753	352
35°	661	655	657	649	648	413
45°	538	534	534	528	528	414
55°	399	397	393	391	390	354
65°	236	231	226	224	225	235
75°	107	107	106	105	104	116
85°	25	27	27	27	27	29
90°	2	7	14	15	15	5
95°	64	228	686	351	243	67
105°	208	324	1246	1865	1750	219
115°	368	450	1038	2006	2269	362
125°	502	577	932	1575	1854	449
135°	605	675	906	1271	1439	467
145°	700	754	894	1087	1167	439
155°	794	823	886	975	1006	366
165°	861	871	890	925	930	243
175°	896	894	891	904	901	85
180°	894	894	894	894	894	

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-125U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.4	861.4	861.4	861.4	861.4
2.5°	866.8	859.7	861.4	860.1	856.6
5°	864.4	856.3	859.1	856.1	856.1
7.5°	858.5	849.7	852.5	849.5	849.3
10°	853.1	844.2	847.1	844.0	843.3
12.5°	845.2	836.4	839.8	836.2	836.0
15°	831.2	823.1	826.7	823.6	822.1
17.5°	815.3	806.5	810.8	806.6	806.0
20°	803.3	794.4	798.7	792.7	792.7
22.5°	788.8	779.9	784.8	777.0	777.0
25°	765.5	756.7	760.2	753.4	752.7
27.5°	737.9	729.2	732.9	725.2	725.1
30°	718.0	709.8	714.2	705.9	705.1
32.5°	696.2	688.7	691.8	683.5	682.8
35°	661.3	654.7	656.8	649.2	648.5
37.5°	624.6	617.9	620.3	613.8	613.5
40°	598.7	594.2	594.9	589.6	588.1
42.5°	574.5	569.5	570.1	564.8	564.6
45°	537.5	533.8	533.8	528.5	528.5
47.5°	498.3	495.5	494.6	490.3	490.1
50°	471.1	468.9	468.1	464.3	463.5
52.5°	442.7	441.7	439.1	435.9	435.8
55°	398.6	397.1	393.3	391.0	390.3
57.5°	350.8	347.8	343.5	340.2	340.8
60°	316.3	313.4	307.3	305.8	305.8
62.5°	283.1	279.6	273.4	271.4	272.5
65°	235.5	231.1	225.7	224.2	225.0
67.5°	192.4	188.4	182.5	182.5	181.9
70°	164.6	162.4	157.8	157.8	157.8
72.5°	139.8	138.8	135.4	135.4	134.8
75°	107.2	107.2	105.7	104.9	104.2
77.5°	80.3	80.6	79.9	79.1	77.8
80°	63.4	64.9	64.2	63.4	62.7
82.5°	47.7	49.2	49.1	47.7	47.6
85°	24.9	27.1	27.2	27.2	27.2
87.5°	7.1	10.4	12.4	12.6	13.2
90°	2.3	6.7	13.7	14.8	14.8
92.5°	27.8	98.2	194.2	93.5	64.9
95°	63.8	227.6	685.9	350.8	242.7
97.5°	101.9	260.5	1075.8	898.8	677.7
100°	131.0	273.6	1199.8	1255.3	1041.4
102.5°	159.3	292.1	1240.8	1522.4	1346.8
105°	208.5	324.4	1246.5	1864.9	1750.2
107.5°	255.0	358.4	1193.4	2040.9	2070.6
110°	286.0	384.0	1145.1	2095.6	2203.7

TEST NUMBER:

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	318.8	409.7	1098.6	2083.5	2261.1
115°	368.0	450.5	1038.0	2005.7	2268.6
117.5°	412.9	490.2	991.1	1881.5	2174.3
120°	442.1	516.7	967.4	1792.3	2093.1
122.5°	467.6	541.4	950.1	1701.1	2001.1
125°	502.5	577.1	932.1	1575.3	1853.8
127.5°	536.0	609.5	920.7	1464.3	1713.0
130°	556.0	629.6	916.1	1400.8	1619.1
132.5°	576.1	648.7	911.5	1344.8	1545.3
135°	605.0	675.2	905.8	1270.9	1439.1
137.5°	632.6	699.9	902.9	1208.2	1346.3
140°	651.8	716.4	900.1	1169.6	1294.4
142.5°	671.8	732.0	898.3	1133.6	1238.8
145°	699.6	754.2	894.5	1086.6	1166.8
147.5°	729.7	777.2	890.6	1047.0	1110.0
150°	749.7	791.0	888.8	1022.1	1074.5
152.5°	768.0	803.8	887.8	1001.8	1044.4
155°	794.2	823.1	886.5	974.9	1006.1
157.5°	817.2	839.7	886.7	956.0	976.9
160°	831.8	850.7	887.6	944.9	960.5
162.5°	844.5	859.9	888.5	935.7	946.9
165°	861.4	871.4	889.9	925.3	929.8
167.5°	875.1	880.9	891.0	917.3	919.1
170°	884.2	886.4	891.0	912.7	912.7
172.5°	889.7	890.1	891.9	908.1	908.1
175°	895.6	894.5	891.0	903.5	901.3
177.5°	898.1	896.3	891.7	899.0	897.2
180°	894.5	894.5	894.5	894.5	894.5

(END OF REPORT)